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Release 2.1D John F. Collins, Biocomputing Research Unit.
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MPSrch_pp protein - protein database search, using Smith-Waterman algorithm
on: Wed Aug 20 09:42:15 1997; NasPAR time 18.26 Seconds
tabular output not generated.

Title: >US-08-469-637A-2
Description: (I-401) from US08469637A.pep (1 of 2)
Perfect Score: 30.0
Sequence: 1 MNKLLCALVFLDISIKWTT.....OKLFLEMIGNQVQSYKISCL 401

Scoring table:

PAM 150

Gap 11

Searched: 91006 seqs, 28888923 residues

Post-processing:

Minimum Match 0%

Listing first 45 summaries

pi51

1:ann1 2:ann2 3:ann3 4:ann4 5:unann1 6:unann2 7:unann3

8:unann4 9:unann5 10:unann6 11:unann7 12:unann8

13:unann9 14:unann10 15:unenc 16:unrev

Statistics:

Mean 46.537; Variance 102.690; scale 0.453

Pred. No.

is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARIES

8

ALIGMENTS

RESULT

ENTRY

TITLE

ALTERNATE_NAMES

ORGANISM

DATE

ACCESSIONS

REFERENCE

#authors

M.P.; Jerry, R.; Dower, S.K.; Cosman, D.; Goodwin, R.G.

Science (1990)

248:1019-1023

#journal

#title

A receptor for tumor necrosis factor defines an unusual

family of cellular and viral proteins.

#cross-references

MURIN:90460639

#accession

A35356

#status

preliminary

#molecule_type

mRNA

#residues

1-461 #label SMI

#cross-references

GB:R32315

A36475

#reference

#authors

Kolino, T.; Brewer, M.T.; Baker, S.L.; Schwartz, P.E.; King, M.W.; Hale, K.K.; Squires, C.H.; Thompson, R.C.; Vannice, J.L.

#journal

Proc. Natl. Acad. Sci. U.S.A. (1990) 87:8331-8335

#title

A second tumor necrosis factor receptor product can shed

#cross-references

MURID:91045991

#accession

A36475

#status

preliminary

#molecule_type

mRNA

#residues

1-195, 'R', 197-461 #label KOH

#cross-references

GB:R38549

A44416

#reference

Dembic, Z.; Loetscher, H.; Gubler, U.; Pan, Y.C.; Lahn, H.W.; Gentz, R.; Brockhaus, M.; Lesslauer, W.

#authors

Cytokine (1990) 2:231-237

#journal

Two human TNF receptors have similar extracellular, but

#cross-references

MURID:91370690

#accession

A44416

#status

preliminary

#molecule_type

mRNA; protein

#residues

23-461 #label DEM

#cross-references

NCBIN:63368; NCBIPI:63371

Result No.	Score	Query Length	DB ID	Description	Pred. No.
1	398	13.1	A33356	tumor necrosis facto	3.16e-47
2	377	12.4	A461	gene murine tumour n	1.46e-43
3	375	12.4	A459	tumor necrosis facto	3.24e-43
4	303	10.0	A60771	B-cell activation pr	6.84e-31
5	294	9.7	A46475	B cell-associated su	2.21e-29
6	294	9.7	A46475	CD40 - mouse	2.21e-29
7	269	8.9	A46475	T2 protein - myxoma	3.14e-25
8	260	8.6	A46475	T2 protein - rabbit	9.43e-24
9	260	8.6	A46475	tumor necrosis facto	9.43e-24
10	233	7.7	D36558	G4R protein - variol	2.20e-19
11	230	7.6	S31385	gene G4R protein - v	6.62e-19
12	221	7.3	A45826	tumor necrosis facto	1.77e-17
13	221	7.3	A454	GOMST1	1.77e-17
14	215	7.1	A451	GOMST1	1.55e-16
15	215	7.1	JN0006	nerve growth factor	3.20e-16
16	213	7.0	A427	GQHIN	2.75e-15
17	207	6.8	A26431	nerve growth factor	2.75e-15
18	186	6.1	A461	JCC3202	4.49e-12
19	178	5.9	A44086	CD30 antigen precurs	7.07e-11
20	172	5.7	A455	tumor necrosis facto	5.44e-10
21	162	5.3	A46517	CD27 antigen precurs	1.55e-08

REFERENCE
#authors Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brannan, C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A.
#journal Mol. Cell. Biol. (1991) 11:3020-3026
#title Molecular cloning and expression of the type 1 and type 2 murine receptors for tumor necrosis factor.

#cross-references MUID:91246168
#accession A40254
#molecule_type mRNA
#residues 1-174 #label GOO
##cross-references GB:MB0469

REFERENCE
#authors Kissoneghis, M.; Fellowes, R.; Feldmann, M.; Chernajovsky, Y.
#submission submitted to the EMBL Data Library, May 1995
#description Characterization of the promoter region of the murine p75-TNF receptor.

#accession S5816
#status preliminary
##residues 1-22 #label KIS
##molecule_type DNA
##cross-references EMBL:X87128

CLASSIFICATION
#superfamily tumor necrosis factor receptor type 2; NGF receptor repeat homology

FEATURE
1-22
23-474
40-77
76-120
166-203
SUMMARY

#domain signal sequence #status predicted #label SIG\\ product tumor necrosis factor receptor type 2 #status Predicted #label MAT\\ domain NGF receptor repeat homology #label NG1\\ domain NGF receptor repeat homology #label NG2\\ domain NGF receptor repeat homology #label NG4 #length 474 #molecular-weight 50319 #checksum 7767

Query Match 12.4%; Score 375; DB 6; Length 474;
Best Local Similarity 41.5%; Pred. No. 3 24e-43;
Matches 65; Conservative 21; Mismatches 51; Indels 11; Gaps 7;

Db 52 qmcckcpqgyvkifcnktsdtvadceasmytwnqfirtciscsscttdqveirac 111
Qy 38 QILCKCPGPGILKQHCTAKWKTVCAPCPDHYTWSHTSDECCLCSPVKELOQVKQEC 97

Db 112 tqgqrrvcaeaagralkhsgsqrqmqlskcpgfgrasspgnqklaapgtf 171
Qy 98 NRTHNRVCECKEGRY--LETFB--CLKH-R-S-CPPGEGVWQAGPERNTVCKRCPDGF 150

Db 172 sdttsdtdvcphrclsi-laiP-gnastdavrapes 206
Qy 151 SNETDSKAPRKHTNSVFCILLTKGNRHDNICS 189

RESULT
ENTRY 4
TITLE A60771 #type complete
ALTERNATE_NAMES B-cell activation protein CD40 precursor - human
ORGANISM #formal_name Homo sapiens #common_name man
DATE 03-Jun-1993 #sequence_revision 03-Feb-1994 #text_change 06-Sep-1995

ACCESSIONS
#authors S04460; A60771
#journal EMBO J. (1989) 8:1403-1410
#title A-B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas

#cross-references MUID:89356608
#accession S04460
##molecule_type RNA
##residues 1-277 ##label STA
##cross-references EMBL:X60592

REFERENCE
#authors Bræsch-Andersen, S.; Paulie, S.; Koho, H.; Nika, H.;
#journal J. Immunol. (1989) 142:562-567

REFERENCE
#title Biochemical characteristics and partial amino acid sequence of the receptor-like human B cell and carcinoma antigen CD40.
#accession A60771
#molecule_type protein
##residues 21-50 #label BRA
##experimental_source Burkitt lymphoma cell line Raji
##cross-references GDB:CD40
#gen #hap_position 20012-20q13.2
#keywords B-cell; glycoprotein; phosphoprotein; transmembrane protein

GENETICS
FEATURE
1-20
21-277
21-193
194-215
216-277
153,180
SUMMARY

#domain signal sequence #status Predicted #label SIG\\ product cell activation protein CM40 #status experimental #label MAT\\ domain extracellular #status predicted #label EXT\\ domain transmembrane #status predicted #label TM\\ domain intracellular #status predicted #label CYT\\ binding-site carbohydrate (Asn) (covalent) #status #length 277 #molecular-weight 30619 #checksum 6261

Query Match 10.0%; Score 303; DB 13; Length 277;
Best Local Similarity 36.8%; Pred. No. 6.84e31;
Matches 56; Conservative 21; Mismatches 67; Indels 8; Gaps 7;

Db 38 cslcapqgk1vsdctterteclcpogeseftldtwrethchqkycdpn-1glr-vqgq 95
Qy 41 CDKCPGPTVXQHQCHAKWKVACPDRDHYTWSHTSDEC-L-YCSPVKELOQVKQEC 97

Db 96 tssetdtictceewhtsaceescvhlrcspgfvkqiatgvsdttcpcppvffsns 155
Qy 98 NRTHNRVCECKEGRY-L-ER-EFLKHKRSCPPGEGVWQAGPERNTVCKRCPDGFNET 154

Db 155 safelcrpwtsctekdlvwagnktvdvg 187
Qy 155 SSKAPCRKHTNSVFGILLTQKGNAHTDNICS 186

RESULT
ENTRY 5
TITLE A46515 #type complete
ORGANISM B cell-associated surface molecule CD40 - mouse
DATE 18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 03-Mar-1995

ACCESSIONS
#authors A46515
#journal Grimaldi, J.C.; Torres, R.; Kozak, C.A.; Chang, R.; Clark, E.A.; Howard, M.; Cockayne, D.A.
#title J. Immunol. (1992) 149:3921-3926
#cross-references NCBI:120357
#cross-references NCBIP:120357
#cross-references MUID:93094586
#accession A46515
#status preliminary; not compared with conceptual translation
#molecule_type nucleic acid
##residues 1-289 ##label GRI
##cross-references NCBI:120357
#experimental_source BALB/c, liver
#note sequence extracted from NCBI backbone
##note sequence extracted from NCBI backbone
SUMMARY

Query Match 9.7%; Score 294; DB 14; Length 289;
Best Local Similarity 38.8%; Pred. No. 2.21e-29;
Matches 59; Conservative 20; Mismatches 55; Indels 8; Gaps 6;

Db 38 cdccapgsrltshatalektqcphcdsgfsaqwneirchqhrheon-qgir-vkqeg 95
Qy 41 CDKCPGPGILKQHCTAKWKTVCAPCPDHYTWSHTSDEC-LY-CSPVKELOQVKQEC 97

Db 96 taesstvcckkeggctskdcadaqhtpcingfymematttvtvhpcvqffqsg 155


```

##molecule-type mRNA
#cross-references GB:104220; NID:9339761; CDS_PPID:9339762
#length 435 #molecular-weight 46709 #checksum 63
#SUMMARY

Query Match 8 6%; Score 260; DB 13; Length 435;
Best Local Similarity 32.3%; Pred. No. 9.43e-24; Indels 11; Gaps 6;
Matches 52; Conservative 23; Mismatches 75; Dels 11; Gaps 6;

Db 52 ephahr1ccscrppgtysaksrsrrdtyrtaacaensynehwnyiticqicrcpcapv-mal 110
| : | : || : || : || : || : || : || : || : || : || : || : || : || : |
Qy 34 ENSHOLLCDCPKPGTYLKHCTAKWKTVCAPCPDPHYDWSWHSDEC-LY--CPVCKEL 90
| : | : || : || : || : || : || : || : || : || : || : || : || : || : |
Oy 111 leekap-tc-skark-tqcrcrpqmf-aawa-ec-thcelis-dap-pgtaelkdevgkgnn-hcp 169
| : | : || : || : || : || : || : || : || : || : || : || : || : || : |
Db 91 QTVKQECRTHNRVCECKEGRY---LEIFCLKHRSSCPFPFGSV-VQAGTPERNVCKR 144
| : | : || : || : || : || : || : || : || : || : || : || : || : || : |
Oy 170 ckaghfpqntspsarcqhtrcenglveaapgtasdtc 210
| : | : || : || : || : || : || : || : || : || : || : || : || : |
Db 145 CPDGFFSNETSSKAPCRKHTNCSVFGLLITOKGNATHDNC 185
| : | : || : || : || : || : || : || : || : || : || : || : || : |

RESULT 10
ENTRY D36858 #type complete
TITLE G4R protein - variola virus
ORGANISM B28 R protein (COP)
REFERENCE #formal_name variola virus
DATE 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
15-Nov-1996
ACCESSIONES D36858; S46888; S35987
REFERENCE A36859
#authors Blinov, V.M.; Sandakhchiev, L.S.
#description submitted to GenBank, November 1992
#description not shown.
#accession D36858
#status preliminary
##molecule-type DNA
##residues 1-349 ##label BLI
##cross-references GB:X69198
##experimental_source strain India-1967, ssp. major, isolate Ind3
#REFERENCE S46858
#authors Kolykhakov, A.A.; Blinov, V.M.; Gytorov, V.V.; Pozdnyakov, S.G.; Chizhikov, V.E.; Frolov, I.V.; Tominen, A.V.; Shchelkunov, S.N.; Sandakhchiev, L.S.
#description submitted to the EMBL Data Library, April 1992
#description Nucleotide sequence analysis of the region of variola virus Xhol F O H P Q genome fragment.
#accession S46888
#status preliminary
##molecule-type DNA
##residues 1-349 ##label KOL
##cross-references EMBL:X69117
##experimental_source strain India-1967, isolate Ind3
#CLASSIFICATION #superfamily NGF receptor repeat homology
#FEATURE FEATURE
#68-109 #domain NGF receptor repeat homology #label NG3
#SUMMARY SUMMARY
#length 349 #molecular-weight 38189 #checksum 2016
Query Match 7.7%; Score 233; DB 8; Length 349;
Best Local Similarity 32.0%; Pred. No. 2.20e-19; Indels 10; Gaps 7;
Matches 54; Conservative 26; Mismatches 79; Dels 11; Gaps 7;

Db 1 mksavlylyiflfscliningraaaptpngckkateykhrhnlccscppgtysarlenckdk 60
| : | : || : || : || : || : || : || : || : || : || : || : || : || : |
Qy 1 MNKLCCALVFLD-ISIKWTTQETFPKLYHYDE-E-TSHOLLCDCPKPGTYLKHCTAK 57
| : | : || : || : || : || : || : || : || : || : || : || : || : || : |
Oy 61 tntqctpgsgttsrnphpaciscngrnsnqvtcsnttnriecspgpycilkq 120
| : | : || : || : || : || : || : || : || : || : || : || : || : || : |
Db 58 WKTIVCAPCDPHYDWSWHSDEC-LY--CPVCKELQVVKOVSQVCECKEGRY--LE- 114
| : | : || : || : || : || : || : || : || : || : || : || : || : |
Oy 121 ssqckvsqtqkqgivys-ghtsvgdcspagfgytssvtsadkc 168
| : | : || : || : || : || : || : || : || : || : || : || : || : |

#SUMMARY

RESULT 11
ENTRY S23285 #type fragment
TITLE gene G4R protein - variola virus (fragment)
ORGANISM #formal_name Variola virus
DATE 22-Nov-1993 #sequence_revision 22-Nov-1993 #text_change
22-Nov-1993
ACCESSIONES S32285
REFERENCE S32285
#authors Schelkunov, S.N.; Blinov, V.M.; Sandakhchiev, L.S.
#journal FEBS Lett. (1993) 319:80-83
#title Genes of variola and vaccinia viruses necessary to overcome the host protective mechanisms.
#accession S32385
#status preliminary
##molecule-type DNA
##residues 1-158 ##label SHC
##cross-references EMBL:X69198
#length 138 #checksum 6036
#SUMMARY

Query Match 7.6%; Score 230; DB 16; Length 138;
Best Local Similarity 35.4%; Pred. No. 6.62e-19; Indels 7; Gaps 4;
Matches 46; Conservative 19; Mismatches 58; Dels 7; Gaps 4;
Db 10 hnllcciscppgtysarlenckdkntqcpccgsatftsnrhlpacisnrgnraeqvirs 69
| : | : || : || : || : || : || : || : || : || : || : || : || : |
Qy 37 HOLICHCOPGPTYLKHCTAKWKTVCAPCPDPHYDWSWHSDEC-LY--CPVCKELQVVKO 96
#ACCESSIONES Db 70 ctttthrcceespgyccylkqssgckcvsqtkcqgklygvsgtsgdvlspcgfky 128
Oy 97 CNRTHNRVCECKEGRY--LE- IE- FCLKHRSSCPFPFGSV-VQAGTPERNVCKRCPDGF 150
#REFERENCE Db 129 shtvssadkc 138
#authors Qy 151 SNETSSKAPC 160

#SUMMARY

RESULT 12
ENTRY I57826 #type complete
TITLE tumor necrosis factor receptor - mouse
ORGANISM #formal_name Mus musculus #common_name house mouse
DATE 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change
02-Aug-1996
ACCESSIONES I57826
REFERENCE I57826
#authors Rotie, J.G.; Bluethmann, H.; Gentz, R.; Lesslauer, W.; Steinmetz, M.
#journal Mol. Immunol. (1993) 30:165-176
#title Genomic organization and promoter function of the murine tumor necrosis factor receptor beta gene.
#cross-references MUID:93156721
#accession I57826
#status preliminary; translated from GB/EMBL/DDBJ
##molecule-type DNA
##residues 1-454 ##label RES
#cross-references GB:My6656; NID:g202100; CDS_PPID:g202102
#GENETICS #11trons
#note #length 454 #molecular-weight 50030 #checksum 4267
#SUMMARY SUMMARY
#length 454 #molecular-weight 50030 #checksum 4267
Query Match 7.3%; Score 221; DB 14; Length 454;
Best Local Similarity 33.1%; Pred. No. 1.77e-17; Indels 11; Gaps 9;
Matches 48; Conservative 21; Mismatches 65; Dels 11; Gaps 9;
#note gene name TNFR-2
#length 454 #molecular-weight 50030 #checksum 4267

#SUMMARY

Query Match 7.3%; Score 221; DB 14; Length 454;
Best Local Similarity 33.1%; Pred. No. 1.77e-17; Indels 11; Gaps 9;
Matches 48; Conservative 21; Mismatches 65; Dels 11; Gaps 9;
#note gene name TNFR-2
#length 454 #molecular-weight 50030 #checksum 4267
Db 49 yvhsknsicctkchqytlvsdcpcppgrdtvcreekgftfasqyrlrqscckterke 108
| : | : || : || : || : || : || : || : || : || : || : || : || : |
Qy 31 YDEETSHOLLCDCPKPGTYLKHCTAK-WKTIVCAPCDPHYDWSWHSDEC-LY--CPVCKE 89
#ACCESSIONES Db 109 msqve-spqcadktcggckaqfqylysethfgcdspcfng-tvtipcketqntvcn 167
#REFERENCE Db 90 LOVKQ-OECNTHNRVCECKEGRY--RYL-EELF-CIKHRSSCPFPFGSV-VQAGTPERNVCKR 143
#authors
#title
#cross-references
#length 115 #molecular-weight 160 #checksum 115
#SUMMARY

```

Db 168 -chagffiresccvpcshckkneec 191
 Qy 144 RCPDGFFSNETSSKA-P-CRKHTNC 166

RESULT 13

GOMST1 #type complete
 ENTRY tumor necrosis factor receptor type 1 precursor - mouse
 TITLE tumor necrosis factor receptor, 55K
 ALTERNATE NAMES tumor necrosis factor receptor, 55K
 ORGANISM #formal_name Mus musculus #common_name house mouse
 DATE 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change
 18-Oct-1996
 ACCESSIONS A38934; B40254; S16677; S19021; I54532
 REFERENCE A38634
 #authors Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
 Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
 #title Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific.
 #cross-references MUID:91187885
 #accession A38634
 #molecule_type mRNA
 #residues 1-454 #label LEW
 #cross-references GB:M60468

REFERENCE A40254
 #authors Goodin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brannan, C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A.
 #journal Mol. Cell. Biol. (1991) 11:3020-3025
 #title Murine receptors for tumor necrosis factor, type 2
 #cross-references MUID:91246168
 #accession B40254
 #molecule_type mRNA
 #residues 1-454 #label GO2

REFERENCE S16677
 #authors Barrett, K.; Taylor-Fishwick, D.A.; Cope, A.P.; Kissnerghis, A.M.; Gray, P.W.; Feldmann, M.; Foxwell, B.M.J.
 Eur. J. Immunol. (1991) 21:1649-1656
 #title Cloning, expression and cross-linking analysis of the murine p55 tumor necrosis factor receptor.
 #cross-references MUID:91285014
 #accession S16677
 #molecule_type mRNA
 #residues 1-454 #label BAR
 #cross-references EMBL:X59238
 #REnCE S19021
 #authors Rothe, J.G.; Brockhaus, M.; Gentz, R.; Lesslauer, W.
 #title Molecular cloning and expression of the mouse Tnf receptor type b.
 #cross-references MUID:92039815
 #accession S19021
 #molecule_type mRNA
 #residues 1-454 #label ROT

REFERENCE I54532
 #authors Bebo, B.F.
 #journal Immunogenetics (1994) 39:450-451
 #title Nucleotide sequence of the TNF type I receptor from a mouse endothelioma cell line.
 #cross-references MUID:94245292
 #accession I54532
 #status translated from GB/EMBL/DDBJ
 #molecule_type mRNA
 #residues 1-454 #label RES
 #cross-references GB:L26349; NID:9430732; CPS_PIP:g430733
 COMMENT This protein is one of two distantly related receptors for both TNF-alpha and TNF-alpha (cachectin) and TNF-beta (lymphotoxin).
 CLASSIFICATION
 KEYWORDS
 FEATURE
 1-29
 30-461
 #domain signal sequence #status predicted #label SIG
 #product tumor necrosis factor receptor type 1; NGF
 #predicted #label MAT
 #domain extracellular #status predicted #label EXT
 #product tumor necrosis factor binding protein #status
 #predicted #label TBP
 #domain NGF receptor repeat homology #label NG1
 #domain NGF receptor repeat homology #label NG2
 #domain NGF receptor repeat homology #label NG3
 #domain NGF receptor repeat homology #label NG4
 #domain transmembrane #status predicted #label MEM
 #domain intracellular #status predicted #label INT
 #binding_site carbohydrate (Asn) (covalent) #status
 #predicted

SUMMARY #length 461 #molecular-weight 50969 #checksum 1617

KEYWORDS duplication; glycoprotein; receptor; transmembrane protein

FEATURE

ENTRY

TITLE

CONTAINS

ORGANISM

DATE

ACCESSIONS

REFERENCE

#authors

#journal

#title

MATCHES

Best Local Similarity 33.1%; Pred. No. 1.77e-17; Mismatches 65; Indels 11; Gaps 9;

Db 49 yvhsknsicctckhgtlyvdccspgrdtvcrccekgftasqnylrqclscckcrke 108
 Qy 31 yDEEISHQOLDCDKCPGTLYKQHCTAK-WSTIVCARSCPDPHYTSRHTSBECLYSPVCKE 89

Db 109 msqveispccgdkdtvrgchenqfqrlylethfqvdacpcfcng-tvtipcketqntvn 167
 Qy 90 LQIVK-QECNRTHRNVRCECKEG--RYL-BIEF-CLKHRSCPPGFGVVQGTPERNTVCK 143

Db 168 -chagffiresccvpcshckkneec 191
 Qy 144 RCPDGFFSNETSSKA-P-CRKHTNC 166

RESULT 14

GORT1 #type complete
 ENTRY tumor necrosis factor receptor type 1 precursor - rat
 TITLE tumor necrosis factor binding protein 1 (TNF blocking factor)
 #formal_name Rattus norvegicus #common_name Norway rat
 DATE 30-Jun-1992 #sequence_revision 07-Oct-1994 #text_change
 05-Apr-1995
 B36555
 #cross-references MUID:91030841
 #accession B36555
 #molecule_type mRNA
 #residues 1-161 #label HIM
 #cross-references GB:M63122
 COMMENT This protein is one of two known receptors for both TNF-alpha (cachectin) and TNF-beta (lymphotoxin).
 #superfamily tumor necrosis factor receptor repeat homology;
 duplication; glycoprotein; receptor; transmembrane protein

CLASSIFICATION

FEATURE

1-29

30-461

#domain signal sequence #status predicted #label SIG
 #product tumor necrosis factor receptor type 1; NGF
 #predicted #label MAT
 #domain extracellular #status predicted #label EXT
 #product tumor necrosis factor binding protein #status
 #predicted #label TBP
 #domain NGF receptor repeat homology #label NG1
 #domain NGF receptor repeat homology #label NG2
 #domain NGF receptor repeat homology #label NG3
 #domain NGF receptor repeat homology #label NG4
 #domain transmembrane #status predicted #label MEM
 #domain intracellular #status predicted #label INT
 #binding_site carbohydrate (Asn) (covalent) #status
 #predicted

SUMMARY #length 461 #molecular-weight 50969 #checksum 1617

```

Query Match    7.3%; Score 220; DB 2; Length 461;
Best Local Similarity 33.8%; Pred. No. 2.54e-17;
Matches 49; Conservative 22; Mismatches 63; Indels 11; Gaps 10;

Query Match    7.1%; Score 215; DB 6; Length 416;
Best Local Similarity 30.4%; Pred. No. 1.55e-16;
Matches 45; Conservative 27; Mismatches 70; Indels 6; Gaps 6;

Db      36 ckacnlgsggvqpgvnn-qtvcepcldsvtsatpkpkpq-cvgllhsnsapcve 93
Db      36 ckacnlgsggvqpgvnn-qtvcepcldsvtsatpkpkpq-cvgllhsnsapcve 93
Db      41 CDKCPPGTYIKQHCTAK-WKTVCAPCPDH-YTDSWHISDECILCSPVCKBLOQYKQECNR 99
Qy      90 L-QTVVKOENRTHARVCEK-E-GRYL-EIEF-CLKHRSCPPGSGCwvoAQPERNVCK 143
Db      94 sdavcraygrgqdelgscksccs1cevgfamfpcaqsdgtceecpegtfdeanfv 153
Qy      100 THNRYCECKEGRYL-EIE-FCLKHRSCPPGFGVVOAGTPERNVCKRCPDGFFSNETSSK 157
Db      154 dpclpctc1ceenevmke-ctatsdaec 180
Qy      158 APCRKHTNCsvfGLLTLQKGNAHDNc 185

#length 416 #molecular-weight 44654 #checksum 3542
#Predicted SUMMARY

Query Match    7.1%; Score 215; DB 6; Length 416;
Best Local Similarity 30.4%; Pred. No. 1.55e-16;
Matches 45; Conservative 27; Mismatches 70; Indels 6; Gaps 6;

Db      36 ckacnlgsggvqpgvnn-qtvcepcldsvtsatpkpkpq-cvgllhsnsapcve 93
Db      36 ckacnlgsggvqpgvnn-qtvcepcldsvtsatpkpkpq-cvgllhsnsapcve 93
Db      41 CDKCPPGTYIKQHCTAK-WKTVCAPCPDH-YTDSWHISDECILCSPVCKBLOQYKQECNR 99
Qy      90 L-QTVVKOENRTHARVCEK-E-GRYL-EIEF-CLKHRSCPPGSGCwvoAQPERNVCK 143
Db      94 sdavcraygrgqdelgscksccs1cevgfamfpcaqsdgtceecpegtfdeanfv 153
Qy      100 THNRYCECKEGRYL-EIE-FCLKHRSCPPGFGVVOAGTPERNVCKRCPDGFFSNETSSK 157
Db      154 dpclpctc1ceenevmke-ctatsdaec 180
Qy      158 APCRKHTNCsvfGLLTLQKGNAHDNc 185

Search completed: Wed Aug 20 09:43:54 1997
Job time : 99 secs.

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